## WHAT IS CLAIMED IS:

1	1(currently amended). An apparatus for use in analyzing video
2	images, comprising:
3	a video input signal input for providing a video signal to be analyzed,
4	the video input signal including at least one of successive picture frames and
5	fields <u>containing a video picture</u> ;
6	a video processor <del>coupled to at least one display device and</del> operable
7	to produce a display of information at least partly from the video input signal;
8	a controller coupled to the video processor and to at least one control
9	input, the controller being operable to control a nature of the information
10	displayed by the video processor;
11	wherein the video processor is operable to produce a formatted
12	display of selectable data images for presentation on a the display device
13	wherein the formatted display comprises a selection of one of:
14	<del>comprising:</del>
15	a <u>full</u> representation of the <u>video picture contained in the</u> <del>full</del>
16	said video input signal to be analyzed, wherein the full said video
17	signal is selectively presented so as to occupy at least a portion of a
18	display area of the <b>formatted</b> display <del>device</del> ;
19	a zoom image including an area of particular scrutiny in said
20	video picture signal to be analyzed, said area of particular scrutiny
21	occupying a selected part of the video signal and being selectively
22	presented so as to occupy at least a portion of the display area of
23	the formatted display; and,
24	a report of video data characteristics of at least at one point
25	within said <del>limited</del> area <u>of particular scrutiny</u> ;
26	a subset of said full representation, said zoom image and
27	said report; and,

28	and, wherein the video processor is operable to change the area of
29	particular scrutiny so as to select for video data characteristics meeting
30	predetermined criteria selectably to present on the display device a subset of
31	the selectable data images.
1	2(original). The apparatus of claim 1, wherein the video processor
2	has a plurality of display modes in which at least two of the selectable data
3	images depict the area of particular scrutiny.
1	3(currently amended). The apparatus of claim 2, wherein the video
2	processor has a display mode wherein the full representation of the video
3	picture image, the zoom image and the report of said video data
4	characteristics are presented at different parts of the display device that and
5	present progressively smaller parts of the full video signal at the area of
6	particular scrutiny.
1	4(original). The apparatus of claim 3, wherein the report includes a
2	tabular display of data respecting pixels at the area of particular scrutiny.
4	5(original). The apparatus of claim 4, wherein the tabular display of
1	
2	data includes sample location information and color sample data.
1	6(original). The apparatus of claim 5, wherein the tabular display of
2	data includes a color swatch demonstrating the color sample data.
	and the control of th
1	7(currently amended). The apparatus of claim 1, wherein the video
2	input <u>signal contains</u> is adapted for processing a digital video signal <u>with</u>
3	successive picture frames and the video processor produces the
4	formatted display repetitively for in increments of at least one frame, from
5	the frame containing one of discrete sample data and discrete color state
6	elements defining pixels in the video input signal.

8(currently amended). The apparatus of claim 1, further comprising a video sampler operable to produce a digital video signal wherein the video processor produces the formatted display for in increments of at least one frame from the frame containing one of discrete sample data and discrete color state elements defining pixels in the video input signal.

9(currently amended). The apparatus of claim 1, wherein the video processor is operable to resize at least part of the video picture for presentation in part of an area of the formatted display that occupies less than a full area of the formatted display, and wherein resizing by the video processor includes comprises a resizing engine operable to present the input video signal on said part of the area of the display device, the resizing engine being operable for at least one of recalculating pixel values, sampling pixel values and reading out selected pixel values, so as to produce an image in a display area which image occupies less than a full area of the display device.

10(currently amended). The apparatus of claim 1, wherein the control input is operable by a user manually to select from the input video input signal an area to be the area of particular scrutiny, and wherein the video processor is operable simultaneously to present the video picture and the zoom image including the area of particular scrutiny, in different areas of said formatted display input video signal on said part of the area of the display device, and a zoom image of the area of particular scrutiny on the first supplemental display area.

11(currently amended). The apparatus of claim 1, wherein the selectable data images are presented in at predetermined areas of the display device providing a first display area and at least one supplemental display area, and wherein the video processor allots the formatted display to

accommodate said selection said predetermined areas to said selectable
 data images responsive to at least one of user input selections and data
 values in the video signal.

12(currently amended). The apparatus of claim 1, wherein the video processor is operable responsive to the control input to define a selection criteria and automatically to select from the <u>video</u> input <del>video</del> signal at least one said area of particular scrutiny based upon data in the video <u>input</u> signal meeting said selection criteria.

13(currently amended). The apparatus of claim 12, further wherein the controller and the video process<u>or</u> are operable to coordinate between automatic and manual selection of the area <u>of for</u> particular scrutiny, wherein said manual selection <u>supersedes</u> supercedes automatic selection at least for a limited period of time.

14(original). The apparatus of claim 13, wherein the selection criteria for said automatic selection include a color gamut value criterion having at least one threshold value such that a value meeting the threshold value criterion is selected for particular scrutiny.

## Claims 15-17 are cancelled.

analysis comprising video signal analysis and processing apparatus operable to compose a <u>formatted</u> display <u>signal</u> that <u>can controllably contain</u>

<u>selectively comprises a subset of areas presenting</u>:

a full <u>visual</u> presentation of <u>a video picture contained in a the</u> video <u>input</u> signal <u>in one of said display areas of</u>, <u>selectively placed in</u> an area less than a full area of the <u>formatted</u> display, said visual presentation <u>selectively selectably</u> including at least one cursor identifying <u>in the video</u>

picture on the formatted display an area of particular scrutiny a limited part of the visual presentation containing at least one pixel defined by one of a sample value and a discrete minimum size zone,

an area <u>a</u> zoom <u>image</u> in which <u>a</u> said limited part <u>of the video picture</u> is placed in an areas less than the full area of the formatted display, wherein the zoom image selectively corresponds to the area of particular <u>scrutiny</u> is zoomed in size to show a local area including and surrounding the <u>pixel</u>; and,

a pixel <u>information area</u> data zoom containing a numerical analysis applied to the <u>at least one said</u> pixel <u>identified by the cursor</u>;

wherein the processing apparatus is <u>operable to change at least one</u> of a position of the cursor, the area of particular scrutiny and the <u>numerical analysis</u> responsive to at least one of a user input and an automatic selection <u>criteria</u> to map into the display signal portions containing one, two or each of said full visual presentation, said area zoom and said pixel data zoom.

19(currently amended). The multi-format monitor of claim 18, wherein the further comprising: a video input signal contains input for providing a video signal to be analyzed, the video signal including at least one of successive picture frames and fields with changing pixel values; further comprising a video processor coupled to a display device for presenting said formatted display and operable to produce a display of information at least partly from the video input signal for said display areas; and, a controller coupled to the video processor and to at least one control input, wherein the controller is operable responsive to the control input to apply a selection criteria for at least temporarily changing said position of the cursor, said area of particular scrutiny and said numerical analysis to encompass at least one of said pixel values based on the selection criteria a user input to control selection of information displayed by the video processor, and said

selection selectively includes manual selection of a position of the cursor, and automatic selection of the position of the cursor, based upon user selection criteria.

20(currently amended). A method for presenting <u>changing</u> video information <u>of a video picture contained in a video input signal</u> for analysis, <u>the of a video input signal</u> represented by one of stored video data and presently processed video data, comprising:

providing a multi-format display having a display **device with a display** area;

selectively displaying the video signal as a complete picture in a formatted display occupying at least in part of the display area, and providing a cursor for identifying a position in the video picture;

display an area of particular scrutiny in the video at least in part of the display area a portion of the picture representing a limited area at and around the position identified by the cursor , thereby forming a picture image zoom that is selectively presented in said part of the display area, said limited area being substantially enlarged compared to a corresponding area in the complete picture;

numerically representing <u>pixel information for</u> at least one pixel associated with the cursor <del>by at least one data value associated with one of a position and an appearance of said at least one pixel, and selectively displaying a tabular presentation of the data values at least in part of the display area;</del>

selectively controlling, both manually and automatically, at least one of the position of the cursor and a content of the formatted display, for at least temporarily directing the formatted display to a different area of particular scrutiny determined according to a selection criterion.

Claims 21-25 are cancelled.